

Notice of Allowability

Application No.

09/908,947

Examiner

Baoquoc N. To

Applicant(s)

KIRKWOOD ET AL.

Art Unit

2162

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 03/28/2006.
2. ☒ The allowed claim(s) is/are 1,5,7-12,16,18-22,26,28-32 and 36-41.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 01/30/2006
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 04/04/2006
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

JEAN E. CORNELIUS
PRIMARY EXAMINER

DETAILED ACTION

1. Claims 1, 12 and 22 are amended and claims 6, 17 and 27 are canceled in the amendment filed on 03/21/2006.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on 01/30/2006. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

EXAMINER'S AMENDMENT

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Stoycho D. Draganoff, Reg. No. 56,181 on 03/31/2006.

Please amend the application as follow:

1. (Currently Amended) A method of responding to a request for data about an enterprise, the method comprising the steps of:

storing a plurality of names for a single entity associated with the enterprise as a first plurality of corresponding concepts in a database of concepts and relationships among concepts, which database describes a plurality of entities associated with

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the enterprise, wherein each name of the plurality of names is associated with a particular concept of the first plurality of corresponding concepts;

designating a first concept of the first plurality of corresponding concepts as a normative concept, wherein the normative concept is used to relate the single entity to other entities of the enterprise;

storing in the database a first relationship of a first relationship type, the first relationship defined for the first concept and an alternative concept of the first plurality of corresponding concepts, wherein the first relationship includes an attribute indicating the alternative concept is one of a synonym for the first concept, an acronym for the first concept and a translation into a different language than a language of the first name corresponding to the first concept;

storing in the database a second relationship of a second relationship type between the first concept and a second concept not among the first plurality of corresponding concepts, wherein the second concept is different than the first concept;

receiving a request including data indicating a particular name of the plurality of names, wherein the request does not include data indicating a first name corresponding to the first concept, wherein:

the particular name corresponds to a particular alternative concept of the first plurality of corresponding concepts, and

the database does not include a relationship defined for the second concept and the particular alternative concept; and

in response to receiving the request, sending a response including content of a file that is associated in the database with the second concept.

12. (Currently Amended) A computer-readable medium carrying one or more sequences of instructions for responding to a request for data about an enterprise, which instructions, when executed by one or more processors, cause the one or more processors to carry out the steps of:

storing a plurality of names for a single entity associated with the enterprise as a first plurality of corresponding concepts in a database of concepts and relationships among concepts, which database describes a plurality of entities associated with the enterprise, wherein each name of the plurality of names is associated with a particular concept of the first plurality of corresponding concepts;

indicating a first concept of the first plurality of corresponding concepts as a normative concept, wherein the normative concept is used to relate the single entity to other entities of the enterprise;

storing in the database a first relationship of a first relationship type, the first relationship defined for the first concept and an alternative concept of the first plurality of corresponding concepts, wherein the first relationship includes an attribute indicating the alternative concept is one of a synonym for the first concept, an acronym for the first concept and a translation into a different language than a language of the first name corresponding to the first concept;

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storing in the database a second relationship of a second relationship type between the first concept and a second concept not among the first plurality of corresponding concepts, wherein the second concept is different than the first concept;

receiving a request including data indicating a particular name of the plurality of names, wherein the request does not include data indicating a first name corresponding to the first concept, wherein:

the particular name corresponds to a particular alternative concept of the first plurality of corresponding concepts, and

the database does not include a relationship defined for the second concept and the particular alternative concept; and

in response to receiving the request, sending a response including content of a file that is associated in the database with the second concept.

32. (Currently Amended) A system for responding to a request for data about an enterprise, the system comprising:

a database of concepts and relationships among concepts describing a plurality of entities associated with the enterprise; and

a processor configured to perform the steps of:

storing a plurality of names for a single entity associated with the enterprise as a first plurality of corresponding concepts in the database, wherein each name of the plurality of names is associated with a particular concept of the first plurality of corresponding concepts;

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indicating a first concept of the first plurality of corresponding concepts as a normative concept, wherein the normative concept is used to relate the single entity to other entities of the enterprise;

storing in the database a first relationship of a first relationship type, the first relationship defined for the first concept and an alternative concept of the first plurality of corresponding concepts, wherein the first relationship includes an attribute indicating the alternative concept is one of a synonym for the first concept, an acronym for the first concepts and a translation into a different language than a language of the first name corresponding to the first concept;

storing in the database a second relationship of a second relationship type between the first concept and a second concept not among the first plurality of corresponding concepts, wherein the second concept is different than the first concept;

receiving a request including data indicating a particular name of the plurality of names, wherein the request does not include data indicating a first name corresponding to the first concept, wherein:

the particular name corresponds to a particular alternative concept of the first plurality of corresponding concepts, and

the database does not include a relationship defined for the second concept and the particular alternative concept; and

in response to receiving the request, sending a response including content of a file that is associated in the database with the second concept.

Allowable Subject Matter

4. Claims 1, 5, 7-12, 16, 18-22, 26, 28-32 and 36-41 are allowed over prior art made of record.

Claim 1, none of prior art alone or in combination either teach or suggests “storing in the database a first relationship of a first relationship type, the first relationship defined for the first concept and an alternative concept of the first plurality of corresponding concepts, wherein the first relationship includes an attribute indicating the alternative concept is one of a synonym for the first concept, an acronym for the first concept and a translation into a different language than a language of the first name corresponding to the first concept; storing in the database a second relationship of a second relationship type between the first concept and a second concept not among the first plurality of corresponding concepts, wherein the second concept is different than the first concept; receiving a request including data indicating a particular name of the plurality of names, wherein the request does not include data indicating a first name corresponding to the first concept, wherein: the particular name corresponds to a particular alternative concept of the first plurality of corresponding concepts, and the database does not include a relationship defined for the second concept and the particular alternative concept” in conjunction with “storing a plurality of names for a single entity associated with the enterprise as a first plurality of corresponding concepts in a database of concepts and relationships among concepts, which database describes a plurality of entities associated with the enterprise, wherein each name of the plurality of names is associated with a particular concept of the first plurality of corresponding

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concepts; designating a first concept of the first plurality of corresponding concepts as a normative concept, wherein the normative concept is used to relate the single entity to other entities of the enterprise; in response to receiving the request, sending a response including content of a file that is associated in the database with the second concept.”

Claims 5, 7-11 are depended on claim 1; therefore, claims 5 and 7-11 are allowed under the same reason as to claim 1.

Claim 12 is the computer-readable medium carrying one or more sequences of instruction when executed by one or more processors to perform the steps similar to claim 1; therefore, claim 12 is allowed under the same reason as to claim 1.

Claims 16 and 18-21 are depended on claim 12; therefore, claim 16 and 18-21 are allowed under the same reason as to claim 21.

Claim 22 is a system with mean plus function to perform the steps similar to claim 1; therefore, claim 22 is allowed under the same reason as to claim 1.

Claims 26 and 28-31 are depended on claim 22; therefore, claims 26 and 28-31 are allowed under the same reason as to claim 22.

Claim 32 is a system having processor to execution instruction to perform the steps similar to claim 1.

Claims 36 and 38-41 are depended on claim 32; therefore, they are allowed under the same reason as to claim 32.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US Patents and US Publications

Horikiri et al. (US. Patent No. 5,706,501)	Patent date: 01/06/1998.
Bettels (US. Patent No. 5,678,045)	Patent date: 10/14/1997.
Khan (US. Pub. No. 2001/0056395 A1)	Pub. No. 12/27/2001.
Smith et al. (US. Pub. No. 2004/0015503 A1)	Pub. No. 01/22/2004.

NPL

Kherfi et al. Image Retrieval from the World Wide Web: Issues, Techniques, and Systems, ACM Computing Surveys, Volume 36, Issue 1, 2004, pages 35-67.

Information storage and retrieval: a survey and functional description, ACM SIGIR Forum, Volume 12, Issue 2, Fall 1977, page 12-108.

Wang et al. Fast trie-based routing lookup with tiny searchable Core, Global Telecommunication Conference, November 17-21, 2002, Volume 3, pages 2328-2332.

Banrji, R.B Theory of problem solving: A branch of artificial intelligence, Volume 70, Issue 12, December 1982.

Contact Information

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Baoquoc N. To whose telephone number is at 571-272-

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4041 or via e-mail BaoquocN.To@uspto.gov. The examiner can normally be reached on Monday-Friday: 8:00 AM – 4:30 PM, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached at 571-272-4107.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231.

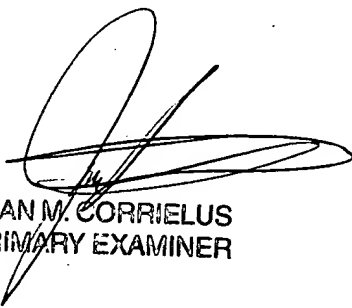
The fax numbers for the organization where this application or proceeding is assigned are as follow:

(571) –273-8300

[Official Communication]

BQ To

April 4th, 2006



JEAN M. CORRIELUS
PRIMARY EXAMINER